

### Abstract

An air vent for ventilation installations in vehicles comprises a housing (10) which defines an air outlet channel (12), and a manual operating element (24) formed by a partial sphere to adjust direction and flow rate of air delivered by the vent. The operating element (24) is mounted in the housing to be rotatable about two axes perpendicular to each other. The air vent further comprises a first set of blades (18) that are pivotally mounted in the air outlet channel (12) and coupled with each other for joint motion, an actuating arm (28) connected with the operating element (24) and adapted to pivot about one of the two axes, and a coupling link (30) connecting the blades with the actuating arm. The air vent has a second set of blades (20) pivotally mounted in the air outlet channel (12) and coupled with each other for joint motion, a cam disk (32) mounted in the housing to rotate about the other of the two axes and coupled with the operating element for joint rotation, and a pivotal lever (36) mounted in the housing and connecting the second set of blades (20) with the cam disc (32).

Fig. 3